

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2002, 21:47:54 ; Search time 755.06 seconds
(without alignments)
27.251 Million cell updates/sec

Title: US-09-851-670-2

Perfect score: 24

Sequence: 1 cgacaatgtaaaacagctgcgc 24

Scoring table: IDENTITY_NUC

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1026190

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Listing first 45 summaries

```

N.Geneseq_1101.*
1: /SIDS2/gcgdata/geneseq/geneseq/NA1980.DAT.*
2: /SIDS2/gcgdata/geneseq/geneseq/NA1981.DAT.*
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4: /SIDS2/gcgdata/geneseq/geneseq/NA1983.DAT.*
5: /SIDS2/gcgdata/geneseq/geneseq/NA1984.DAT.*
6: /SIDS2/gcgdata/geneseq/geneseq/NA1985.DAT.*
7: /SIDS2/gcgdata/geneseq/geneseq/NA1986.DAT.*
8: /SIDS2/gcgdata/geneseq/geneseq/NA1987.DAT.*
9: /SIDS2/gcgdata/geneseq/geneseq/NA1988.DAT.*
10: /SIDS2/gcgdata/geneseq/geneseq/NA1989.DAT.*
11: /SIDS2/gcgdata/geneseq/geneseq/NA1990.DAT.*
12: /SIDS2/gcgdata/geneseq/geneseq/NA1991.DAT.*
13: /SIDS2/gcgdata/geneseq/geneseq/NA1992.DAT.*
14: /SIDS2/gcgdata/geneseq/geneseq/NA1993.DAT.*
15: /SIDS2/gcgdata/geneseq/geneseq/NA1994.DAT.*
16: /SIDS2/gcgdata/geneseq/geneseq/NA1995.DAT.*
17: /SIDS2/gcgdata/geneseq/geneseq/NA1996.DAT.*
18: /SIDS2/gcgdata/geneseq/geneseq/NA1997.DAT.*
19: /SIDS2/gcgdata/geneseq/geneseq/NA1998.DAT.*
20: /SIDS2/gcgdata/geneseq/geneseq/NA1999.DAT.*
21: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15.2	63.3	25	22	ACG92017
2	14.6	60.8	42	14	AAQ38136
3	14.6	60.8	58	16	AAQ84428
4	14.2	59.2	19	21	AAAG0233
5	14.2	59.2	31	20	AAQ6288
6	14.2	59.2	42	21	AAZ89133
7	14.2	59.2	45	20	AAZ88588
8	14.2	59.2	53	22	AAH36592
9	14	58.3	30	21	AAH39037
10	14	58.3	30	22	AAH39037
11	14	58.3	30	22	AAH39037

12	13.8	57.5	22	22	AAQ6892	SNP containing pro
13	13.8	57.5	32	21	AAQ21597	Neisseria ORF 121
14	13.8	57.5	32	21	AAQ81312	N. meningitidis OR
15	13.8	57.5	32	21	AAZ54367	Neisseria ORF PCR
16	13.8	57.5	32	21	AAZ54747	Neisseria species
17	13.8	57.5	47	21	AAZ66262	Human map-related
18	13.6	56.7	31	22	AAI30159	Human single nucle
19	13.6	56.7	31	22	AAI31069	Human single nucle
20	13.4	55.8	30	19	AAV35409	HIV-1 gag protein
21	13.4	55.8	31	9	AAH80770	Probe for detectio
22	13.4	55.8	31	10	AAH92231	Probe for HIV-1 vi
23	13.4	55.8	31	19	AAV67874	Nucleotide fragmen
24	13.4	55.8	36	16	AAQ82965	Oligo primer A089/
25	13.4	55.8	37	16	AAQ98693	KEX2c 3' PCR prime
26	13.4	55.8	47	21	AAZ65598	Human map-related
27	13.2	55.0	21	19	AAV57381	Human used to det
28	13.2	55.0	29	19	AAV28948	Plasmid pAMG21 hrc
29	13.2	55.0	31	14	AAQ39026	Mutagenic PCR prim
30	13.2	55.0	44	21	AAH37491	Arabidopsis thalia
31	13.2	55.0	27	18	AAH61708	Prostatic specific
32	13	54.2	28	18	AAH94674	Snaptagon flavono
33	13	54.2	28	20	AAZ09746	Human HMI.24 anti
34	13	54.2	29	22	AAH74794	Human HMI.24 prote
35	13	54.2	29	22	AAH74805	Human HMI.24 prote
36	13	54.2	35	21	AAZ95727	Clostridium botuli
37	13	54.2	41	19	AAV50904	Maize polymorphic
38	13	54.2	45	18	AAH65653	Rat neurodap 1 gen
39	13	54.2	45	21	AAH95533	TCR alpha-beta cDN
40	13	54.2	47	21	AAH68529	STE20-like protein
41	12.8	53.3	21	19	AAZ66465	Human polymorphic
42	12.8	53.3	22	22	AAH60111	Human ATM gene exo
43	12.8	53.3	29	21	AAH4618	Polymorphic fragme
44	12.8	53.3	32	17	AAH9150	Primer for amplify
45	12.8	53.3	32	19	AAH45063	Primer 3' fragment p

ALIGNMENTS

RESULT 1	ACG92017/c	ACG92017 standard; DNA; 25 BP.
ID	ACG92017	
AC	ACG92017	
XX		
DT	21-MAR-2001 (first entry)	
XX		
DE	PCR primer oLL103.	
XX		
KW	Heterologous gene expression; transposase; Mos1; mariner-like transposon;	
KW	PCR primer: ss.	
XX		
OS	Drosophila mauritiana.	
XX		
PN	W0200073510-A1.	
XX		
PD	07-DEC-2000.	
XX		
PF	01-JUN-2000; 2000WO-US40091.	
XX		
PR	01-JUN-1999; 99US-0136972.	
XX		
PA	(UTAH) UNIV UTAH RES FOUND.	
XX		
PI	Bessereau J, Jorgensen E;	
XX		
DR	WPL: 2001-080477/09.	
XX		
PT	Regulating expression of heterologous gene in Caenorhabditis elegans	
PT	involves inserting transgene construct comprising heterologous gene,	
PT	especially transposase gene into C.elegans	
XX		
PS	Example 3; Page 18; 48pp; English.	

QY 3 acaaatggaacacagctcgc 23

PCR primer; sequencing primer; ss.

OS Homo sapiens.
XX
XX WO200027864-A1.
XX
XX 18-MAY-2000.
XX
XX 05-NOV-1999; 99WO-US26055.
XX
XX 06-NOV-1998; 98US-0107468.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX Tavtigian SV, Teng DHF, Simard J, Rommens JM;
XX WPI: 2000-376481/32.
XX
XX Human prostate cancer (HPC)2 nucleic acids, polypeptides, and
XX antibodies, useful for treatment and diagnosis of prostate cancer -
XX
XX Example 3; Page 56; 157pp; English.
XX
XX The present sequence is a primer used in the isolation of the human
XX CC and murine prostate cancer predisposing genes HPC2 and Mm.HPC2. The human
XX CC version of the gene is found on chromosome 17p. Some alleles cause a
XX CC predisposition to cancer, particularly prostate cancer. This gene and its
XX CC protein can be used in peptide and gene therapy for cancer patients, as
XX CC well as being useful as diagnostic tools (both for cancer sufferers and
XX CC those with a predisposition to the disease) and in the production of
XX CC cancer drugs.
XX
XX Sequence 19 BP; 8 A; 5 C; 3 G; 3 T; 0 other;

Query Match 59.2%; Score 14.2; DB 21; Length 19;
Best Local Similarity 84.2%; Pred. No. 1.7e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 caaatggaataacagctcg 22
||| ||||| ||| |||
Db 1 caactggaataatactctcg 19

RESULT 5
AA06288
ID AA06288 standard; DNA; 31 BP.
XX
XX AA06288;
AC
XX 31-MAR-1999 (first entry)
DT
XX
XX Human biallelic polymorphic DNA fragment SGC30827.
DE
XX
XX Polymorphism; biallelic; paternity testing; forensic; genetic mapping;
KW phenotypic typing; medicament; disease; marker; human; ss.
XX
XX Homo sapiens.
OS
XX
XX WO9858529-A2.
PN
XX 30-DEC-1998.
PD
XX
XX 22-JUN-1998; 98WO-US12930.
PE
XX
XX 24-JUN-1997; 97US-0050594.
PR
XX
XX (AFFY-) AFFYMETRIX INC.
PA
XX
XX Berne A, Chee M, Fan J, Lipshutz RJ;
PI WPI: 1999-080963/07.
XX
XX New nucleic acid segments containing polymorphic sites - used for,
PT e.g. detecting a disease phenotype, in forensics, paternity testing

PT or genetic mapping of phenotypic traits
XX
XX Claim 1; Page 19; 61pp; English.
XX
XX Sequences AA06101-X06558 represent human DNA fragments which contain
XX CC biallelic polymorphic markers. The base occupying the polymorphic site
XX CC is indicated by the appropriate IUPAC-IUB ambiguity code. These
XX CC fragments can be used in a method for determining polymorphic forms in
XX CC an individual. The invention further provides computer-readable storage
XX CC medium for storing data for access by an application programme being
XX CC executed on a data processing system. Such a method comprises a data
XX CC structure stored in the computer-readable storage medium, the data
XX CC structure including information resident in a database used by the
XX CC application programme and including records, each record comprising
XX CC information identifying a polymorphism shown in the above sequences. The
XX CC products and methods can be used for analysing polymorphic sites in
XX CC individuals for testing for the presence of a disease phenotype or in
XX CC forensics, paternity testing or genetic mapping of phenotypic traits.
XX CC They can also be used for the production of polypeptides expressed by
XX CC variant genes and for the production of transgenic animals. The nucleic
XX CC acid segments can also be used in the manufacture of medicaments for the
XX CC treatment or prophylaxis of diseases.
XX
XX Sequence 31 BP; 11 A; 5 C; 7 G; 7 T; 1 other;

Query Match 59.2%; Score 14.2; DB 20; Length 31;
Best Local Similarity 76.2%; Pred. No. 1.8e+03;
Matches 16; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

OY 1 cgacaatggaataacagctc 21
||| | ||| ||| ||| |||
Db 1 ctacataggataaasagctc 21

RESULT 6
AA299133
ID AA299133 standard; DNA; 42 BP.
XX
XX AA299133;
AC
XX 21-JUN-2000 (first entry)
DT
XX
XX B. subtilis HPS/HPI genes primer Bstck-G1.
DE
XX
XX Hexulose-phosphate synthase; HPS; hexulose phosphate isomerase; HPI;
KW glucose 6-phosphate; methanol; PCR primer; ss.
XX
XX Bacillus subtilis.
OS
XX
XX JP2000041683-A.
PN
XX 15-FEB-2000.
PD
XX
XX 04-AUG-1998; 98JP-0220881.
PE
XX
XX 04-AUG-1998; 98JP-0220881.
PR
XX
XX (AJIN) AJINOMOTO KK.
PA
XX
XX WPI: 2000-274044/24.
DR
XX
XX Preparation of hexulose-phosphate synthase and hexulose-phosphate
PT isomerase for preparation of 1-13C D-glucose 6-phosphate from
PT C13-labeled methanol -
XX
XX Examples; Page 10; 15pp; Japanese.
XX
XX The invention relates to a novel DNA fragment containing the
XX CC hexulose-phosphate synthase (HPS) and hexulose phosphate isomerase
XX CC (HPI) coding sequences (AA299132). This sequence represents a PCR primer
XX CC used to isolate these genes. HPS or HPS and HPI are used for the
XX CC preparation of C13-D-glucose 6-phosphate from C13-labelled methanol.

XX Sequence 42 BP; 14 A; 7 C; 9 G; 12 T; 0 other;
SQ

Query Match 59.2%; Score 14.2; DB 21; Length 42;
Best Local Similarity 84.2%; Pred. No. 1.9e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 aaatggaacacagctgc 23
||||||| ||||| ||
Db 12 aaatggaattacagctgc 30

RESULT 7
AAH8558
ID AAH8558 standard; CDNA; 53 BP.
XX
AC AAH8558;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human chromosome 18q YAC clone nucleotide sequence.
XX
KW Human chromosome 18q; mood disorder; polymorphic marker; detection;
KW identification; trinucleotide repeat expansion; schizophrenia;
KW anxiety disorder; adjustment disorder; personality disorder;
KW nucleotide triplet repeat; ss.
XX
OS Homo sapiens.
XX Synthetic.
XX
PN WO9932663-A2.
XX
PD 01-JUL-1999.
XX
PF 17-DEC-1998; 98WO-EP08543.
XX
PR 18-DEC-1997; 97GB-0026804.
XX
PA (VLAAM) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.
XX
PI Del-Favero J, Raeymaekers P, Van Broeckhoven C;
XX WPI: 1999-418934/35.
XX
DR Detecting nucleotide triplet repeats in human chromosome 18q
XX
PT Disclosure; Page 41; 87pp; English.
XX
PS The present invention describes detecting nucleotide triplet repeats in
XX a region of human chromosome 18q disposed between polymorphic markers
CC D18S68 and D18S979 to identify a human gene associated with a mood
CC disorder or related disorder. AAX88542 to AAX88705 represents human
CC chromosome 18q YAC clones and primers corresponding to them, used in the
CC exemplification of the present invention. YAC clones comprising a
CC portion of the region of human chromosome 18q between markers D18S68 and
CC D18S979 are used to identify at least one human gene associated with a
CC mood disorder or related disorder. The mood disorder or related
CC disorder, is chosen from the Diagnostic and Statistical Manual of Mental
CC Disorders, version 4 (DSM-IV) taxonomy. This includes mood disorders
CC (296.XX, 300.4, 311, 301, 13, 295.70), schizophrenia and related
CC disorders (295, 297.1, 298.9, 297.3, 298.9), anxiety disorders (300.XX,
CC 309.81, 308.3), adjustment disorders (309.XX) and personality disorders
CC (codes 301.XX). Probes derived from genes associated with the mood
CC disorder or related disorder can be used to detect pathological
CC mutations or genetic variations in patients. The methods, probes and
CC antibodies can be used to determine the susceptibility of an individual
CC to a mood disorder or related disorder. The nucleic acids and proteins
CC of the human gene can be used to treat mood disorders and related
CC disorders.
XX
SQ Sequence 45 BP; 14 A; 7 C; 11 G; 13 T; 0 other;

Query Match 59.2%; Score 14.2; DB 20; Length 45;
Best Local Similarity 84.2%; Pred. No. 1.9e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 gacaatggaacacagct 20
||||||| ||||| |||||
Db 6 gtcaaatgcaaacacagct 24

RESULT 8
AAH36592/C
ID AAH36592 standard; CDNA; 53 BP.
XX
AC AAH36592;
XX
DT 03-SEP-2001 (first entry)
XX
DE Human colon cancer antigen encoding cDNA SEQ ID NO:3674.
XX
KW Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW colorectal carcinoma; ss.
XX
OS Homo sapiens.
XX
PN WO200122920-A2.
XX
PD 05-APR-2001.
XX
PF 28-SEP-2000; 2000WO-US26524.
XX
PR 29-SEP-1999; 99US-0157137.
XX
PR 03-NOV-1999; 99US-0163280.
XX
PA (HUMA-) HUMANA GENOME SCI INC.
XX
PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX WPI: 2001-235357/24.
XX
DR P-PSDB: AAG77185.
XX
PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides,
PT useful for preventing, diagnosing and/or treating colorectal cancers -
XX
PS Claim 1; Page 5520-5521; 9803pp; English.
XX
CC AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
CC cancer-associated nucleic acid molecules (N) and proteins (P), where
CC the proteins are collectively known as colon cancer antigens. The colon
CC cancer antigens have cytostatic activity and can be used in gene
CC therapy and vaccine production. N and P may be used in the prevention,
CC diagnosis and treatment of diseases associated with inappropriate P
CC expression. For example, N and P may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of P by expressing
CC inactive proteins or to supplement the patient's own production of P.
CC Additionally, N may be used to produce the colon cancer-associated P,
CC by inserting the nucleic acids into a host cell and culturing the cell
CC to express the proteins. N and P can be used in the prevention, diagnosis
CC and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204
CC and AAG77789 represent sequences used in the exemplification of the
CC present invention.
CC N.B. Pages 666 to 682 and page 7053 of the sequence listing were
CC missing at time of publication, meaning no sequences are present for
CC SEQ ID NO:1027 to 1052, 7921 and 7922.
XX
SQ Sequence 53 BP; 5 A; 11 C; 9 G; 23 T; 5 other;

Query Match 59.2%; Score 14.2; DB 22; Length 53;
Best Local Similarity 84.2%; Pred. No. 1.9e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 6 aatggaataacagctcgc 24
||| ||||| ||||| ||
Db 19 AAAGCAAAACCGCTCGCC 1

RESULT 9
AAA99037
ID AAA99037 standard; DNA; 30 BP.
XX
AC AAA99037;
XX
DT 17-JAN-2001 (first entry)
XX
DE Human Factor VIII PCR fragment oligonucleotide SEQ ID NO:1.

XX
KW Human; Factor VIII; FVIII; Factor IX truncated intron 1; FIX TII;
KW B-domain; modification; gene therapy; PCR; haemostatic;
KW haemophilia A; ss.
XX

OS Homo sapiens.
XX
PN EPI038959-A1.
XX

PD 27-SEP-2000.
XX

PF 17-MAR-1999; 99EP-0104050.
XX

PR 17-MAR-1999; 99EP-0104050.
XX

PA (AVET) AVENTIS BEHRING GMBH.
XX

PI Negrier C, Plantier Jt;
XX

DR WPI: 2000-603721/58.
XX

PT Novel modified factor VIII cDNA for use in gene therapy, in which the
PT wild-type factor VIII cDNA B-domain is deleted and truncated factor IX
PT intron 1 is inserted in one or more locations -
XX

XX
PS Disclosure; Page 7; 17pp; English.

XX
CC The present invention describes a modified Factor VIII (FVIII) cDNA (I)
CC characterised in that the B-domain of wild-type FVIII cDNA has
CC been deleted and a truncated Factor IX intron 1 (FIX TII) has been
CC inserted in one or more locations of FVIII cDNA. Also described
CC are: (1) producing FVIII in a cell line containing (I); and
CC (2) a transfer vector for use in gene therapy comprising (I). (I) has
CC haemostatic activity, and can be used in gene therapy. (I) is used in
CC a transfer vector for gene therapy and for a higher yield in vitro
CC production of FVIII, which is used for treating haemophilia A.
CC Production of FVIII is improved by adding introns in the FVIII. The
CC present sequence represents a FVIII PCR fragment oligonucleotide which
CC is used in the exemplification of the present invention.
XX

XX
SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;

Query Match 58.3%; Score 14; DB 21; Length 30;
Best Local Similarity 77.3%; Pred. No. 2.2e+03;
Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
OY 3 acaaatggaataacagctcgc 24
||| ||||| ||||| ||
Db 3 acccatggaataagagctcgc 24

RESULT 10
AAC67914
ID AAC67914 standard; DNA; 30 BP.
XX
AC AAC67914;
XX
DT 19-FEB-2001 (first entry)

XX
DE Human Factor VIII oligonucleotide FVIII ATG.
XX

XX
KW Human; FVIII; Factor VIII; gene therapy; Factor IX intron 1;
KW Factor VIII production; PCR primer; ss.
XX

OS Homo sapiens.
XX

PN EPI048726-A2.
XX

PD 02-NOV-2000.
XX

PF 03-MAR-2000; 2000EP-0104677.
XX

PR 29-APR-1999; 99EP-0107397.
XX

PA (CENT-) CENTEON PHARMA GMBH.
XX

PI Negrier C, Plantier Jt;
XX

DR WPI: 2001-072945/09.
XX

PT Modified Factor VIII cDNA comprising a truncated Factor IX intron 1
PT sequence inserted at one or more locations, useful for efficient
PT production of Factor VIII in host cells -
XX

XX
PS Disclosure; Page 9; 19pp; English.

XX
CC The present sequence is used in an invention relating to a modified
CC Factor VIII cDNA having a truncated Factor IX intron 1 inserted at one or
CC more places. The cDNA encodes a mutated Factor VIII, where the wild type
CC B domain has been deleted. The modified Factor VIII cDNA is used to
CC generate Factor VIII protein in vitro. The cDNA is used in a transfer
CC vector for gene therapy. The modification allows increased production of
CC Factor VIII. Truncated Factor VIII cDNA with an insertion of the Factor
CC IX intron 1 in intron 1 and 12 and in intron 1 and 13 gave 2-3 and 8-9
CC times more Factor VIII than unmodified Factor VIII cDNA.
XX

XX
SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;

Query Match 58.3%; Score 14; DB 22; Length 30;
Best Local Similarity 77.3%; Pred. No. 2.2e+03;
Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 3 acaaatggaataacagctcgc 24
||| ||||| ||||| ||
Db 3 acccatggaataagagctcgc 24

RESULT 11
AAC67925
ID AAC67925 standard; DNA; 30 BP.
XX

XX
AC AAC67925;
XX

DT 19-FEB-2001 (first entry)
XX

DE Human TFXII oligonucleotide FVIII ATG.
XX

XX
KW Human; FVIII; Factor VIII; gene therapy; truncated Factor IX intron 1;
KW TFXII; PCR primer; ss.
XX

OS Homo sapiens.
XX

PN EPI048726-A2.
XX

PD 02-NOV-2000.
XX

PF 03-MAR-2000; 2000EP-0104677.
XX

PR 29-APR-1999; 99EP-0107397.
XX

PA (CENT-) CENTEON PHARMA GMBH.
XX
PI Negrier C, Plantier JL;
XX
DR WPI: 2001-072945/09.
XX
PT Modified Factor VIII cDNA comprising a truncated Factor IX intron 1
PT sequence inserted at one or more locations, useful for efficient
PT production of Factor VIII in host cells -
XX
PS Disclosure; Page 12; 19pp; English.
XX
CC The present sequence was used for introducing truncated Factor IX intron
CC 1 into a Factor VIII cDNA sequence. The resulting cDNA encodes a mutated
CC Factor VIII, where the wild type B domain has been deleted. The modified
CC Factor VIII cDNA is used to generate Factor VIII protein in vitro. The
CC cDNA is used in a transfect vector for gene therapy. The modification
CC allows increased production of Factor VIII. Truncated Factor VIII cDNA
CC with an insertion of the Factor IX intron 1 in intron 1 and 12 and in
CC intron 1 and 13 gave 2-3 and 8-9 times more Factor VIII than unmodified
CC Factor VIII cDNA.
XX
SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;

Query Match 58.3%; Score 14; DB 22; Length 30;
Best Local Similarity 77.3%; Pred. No. 2.2e+03;
Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
0Y 3 acaatggaacacagctgcc 24
11 ||||| ||||| ||
DB 3 accatggaacacagctctcc 24

RESULT 12

AAS06892

ID AAS06892 standard; DNA: 22 BP.

XX AC AAS06892;

XX DT 12-SEP-2001 (first entry)

XX DE SNP containing protein kinase DNA sequence #61.

XX KW Human: protein kinase; PTK; STK; cancer; cardiovascular disease; SNP;

XX KW metabolic disorder; immune related disease; neurological disorder;

XX KW neurodegenerative disorder; inflammatory disorder; infectious disease;

XX KW reproductive disorder; gene therapy; single nucleotide polymorphism; ds.

XX OS Homo sapiens.

XX PN WO200138503-A2.

XX PD 31-MAY-2001.

XX PE 22-NOV-2000; 2000WO-US32085.

XX PR 24-NOV-1999; 99US-0167482.

XX PA (SUG-) SUGEN INC.

XX PI Plowman GD, Whyte D, Manning G, Sudarsanam S, Martinez R;

XX PI Flanagan P, Clary D;

XX DR WPI: 2001-343950/36.

XX Nucleic acids encoding human kinase polypeptides, useful for preventing
PT diagnosing and/or treating e.g. cancer, immune, cardiovascular and
PT neuronal-associated diseases, and microbial infections -
XX Example 8B; Page 334; 433pp; English.

XX AAS06832-AAS06897 represent part of a polynucleotide sequence encoding

CC for novel human protein kinases where a single nucleotide polymorphism
CC (SNP) has been identified. The SNP occurs at the last position of the
CC present sequence. The sequences are described relating to the
CC invention of novel human protein kinases #1-57 (AAU03501-AAU03557). The
CC novel protein kinases have been identified as members of the tyrosine
CC or serine/threonine kinase (PTK and STK) families. The polynucleotides
CC encoding protein kinases and the polypeptides may be used in the
CC prevention, diagnosis and treatment of diseases associated with
CC inappropriate kinase expression. For example, they may be used to treat
CC cancers (especially cancers of haematopoietic origin), cardiovascular
CC disease (e.g. atherosclerosis), metabolic disorders (e.g. diabetes),
CC immune related diseases (e.g. rheumatoid arthritis), neurological
CC disorders (e.g. schizophrenia), neurodegenerative disorders (e.g.
CC Parkinson's disease), inflammatory disorders (e.g. asthma), infectious
CC disease (e.g. HIV) and reproductive disorders (e.g. infertility).
CC Additionally, polynucleotides encoding protein kinases may be
CC used for gene therapy and as DNA probes in diagnostic assays.
CC The protein kinase polypeptides may be used as antigens in the production
CC of antibodies against the protein kinases and in assays to identify
CC modulators of protein kinase expression and activity.
XX
SQ Sequence 22 BP; 6 A; 6 C; 4 G; 5 T; 1 other;

Query Match 57.5%; Score 13.8; DB 22; Length 22;
Best Local Similarity 88.2%; Pred. No. 2.6e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
0Y 8 tggaaaacacagctgcc 24
11 ||||| ||||| ||
DB 5 tggaaaacacagctgcc 21

RESULT 13

AAF21597

ID AAF21597 standard; DNA: 32 BP.

XX AC AAF21597;

XX DT 13-MAR-2001 (first entry)

XX DE Neisseria ORF 121 PCR primer SEQ ID NO:98.

XX KW Neisseria meningitidis; Neisseria gonorrhoeae; immunogenic; vaccine;

XX KW diagnosis; antigen; detection; infection; gene therapy; antibacterial;

XX KW PCR primer; ss.

XX OS Neisseria sp.

XX PN WO20006791-A1.

XX PD 09-NOV-2000.

XX PE 08-MAR-2000; 2000WO-US05928.

XX PR 30-APR-1999; 99US-0132068.

XX PR 08-OCT-1999; 99WO-US23573.

XX PR 28-FEB-2000; 2000GB-0004695.

XX PA (CHIR) CHIRON CORP.

XX PA (GENO-) INST GENOMIC RES.

XX PI Pizsa M, Hickey E, Peterson J, Tettelin H, Venter JC, Masignani V;

XX PI Galeotti C, Mora M, Ratti G, Scarselli M, Scarlato V, Rappuoli R;

XX PI Frazer CM, Grandi G;

XX DR WPI: 2000-647603/62.

XX Neisseria meningitidis B full length genome sequence and open reading
PT frames are used to detect, treat and prevent Neisseria infections -
XX Example 1; Page 116; 692pp; English.

